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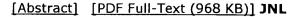
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We give the first study of copy detection techniques for VLSI CAD applications; these techniques are complementary to previous watermarking-based IP protection methods in finding and proving improper use of design IP. After reviewing related literature (notably in the text processing domain), we propose a generic methodology for copy detection based on determining basic elements within structural representations of solutions (IPs), calculating (context-independent) signatur ...

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The anomaly-detection problem can be formulated as one of learning to characterize the behaviors of an individual, system, or network in terms of temporal sequences of discrete data. We present an approach on the basis of instance-based learning (IBL) techniques. To cast the anomaly-detection task in an IBL framework, we employ an approach that transforms temporal sequences of discrete, unordered observations into a metric space via a similarity measure that encodes intra-attribute depende ...

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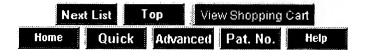
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- 9 6,289,328 **T** Chemical sensor pattern recognition system and method using a self-training neural network classifier with automated outlier detection
- 10 6,286,363 T Integrated multi-element lubrication sensor and health lubricant assessment system
- 11 6,280,381 T Intelligent system for noninvasive blood analyte prediction
- 12 6,279,946 **T** Methods for controlling a system in a vehicle using a transmitting/receiving transducer and/or while compensating for thermal gradients
- 13 <u>6,278,799</u> **T** <u>Hierarchical data matrix pattern recognition system</u>
- 14 6,272,479 T Method of evolving classifier programs for signal processing and control
- 15 6,249,252 T Wireless location using multiple location estimators
- 16 6,233,575 T Multilevel taxonomy based on features derived from training documents classification using fisher values as discrimination values
- 17 6,199,018 T Distributed diagnostic system

- 18 6,198,838 T Method and system for detection of suspicious lesions in digital mammograms using a combination of spiculation and density signals
- 19 6,196,057 T Integrated multi-element lubrication sensor and lubricant health assessment
- 20 6,192,351 **T** Fuzzy neural networks
- 21 6,181,957 T Non-invasive glucose monitor
- 22 6,170,318 **T** Methods of use for sensor based fluid detection devices
- 23 6,140,643 **T** Method for identification of unknown substances
- 24 <u>6,135,966</u> **T** <u>Method and apparatus for non-invasive diagnosis of cardiovascular and related disorders</u>
- 25 6,131,089 T Pattern classifier with training system and methods of operation therefor
- 26 <u>6,128,561</u> **T** <u>Self-diagnostic system for conditioned maintenance of machines operating under intermittent load</u>
- 27 6,122,042 T Devices and methods for optically identifying characteristics of material objects
- 28 6,118,850 **T** Analysis methods for energy dispersive X-ray diffraction patterns
- 29 6,093,308 **T** Sensors for detecting analytes in fluids
- 30 6,090,044 T System for diagnosing medical conditions using a neural network
- 31 <u>6,075,891</u> **T** Non-literal pattern recognition method and system for hyperspectral imagery exploitation
- 32 6,052,679 **T** Artificial neural networks including Boolean-complete compartments
- 33 6,040,906 **T** Resonance raman spectroscopy for identifying and quantitating biomatter, organic, and inorganic analytes
- 34 6,035,274 **T** Strain-sensing goniometers, systems and recognition algorithms
- 35 6,035,057 T Hierarchical data matrix pattern recognition and identification system
- 36 6,024,705 T Automated seismic detection of myocardial ischemia and related measurement of cardiac output parameters
- 37 5,995,910 **T** Method and system for synthesizing vibration data
- 38 5,982,917 T Computer-assisted method and apparatus for displaying x-ray images
- 39 5,963,653 T Hierarchical information fusion object recognition system and method
- 40 5,961,571 **T** Method and apparatus for automatically tracking the location of vehicles
- 41 5,933,819 T Prediction of relative binding motifs of biologically active peptides and peptide mimetics
- 42 5,920,477 T Human factored interface incorporating adaptive pattern recognition based controller apparatus
- 43 5,911,872 **T** Sensors for detecting analytes in fluids
- 44 5,875,108 **T** Ergonomic man-machine interface incorporating adaptive pattern recognition based control system
- 45 5,845,049 **T** Neural network system with N-gram term weighting method for molecular sequence classification and motification
- 46 5,813,406 T Strain-sensing goniometers, systems and recognition algorithms
- 47 5,799,100 T Computer-assisted method and apparatus for analysis of x-ray images using wavelet



- 48 5,798,981 **T** Integrity assessment of ground anchorages
- 49 5,788,833 T Sensors for detecting analytes in fluids
- 50 <u>5,774,357</u> T <u>Human factored interface incorporating adaptive pattern recognition based controller apparatus</u>



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| 53 5,733,721 T Cell analysis method using quantitative fluorescence image analysis |
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| 57 5,619,616 T Vehicle classification system using a passive audio input to a neural network |
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| 59 5,572,028 T Multi-element dosimetry system using neural network |
| 60 5,566,273 T Supervised training of a neural network |
| 61 5,566,092 T Machine fault diagnostics system and method |
| 62 5,519,805 T Signal processing arrangements |
| 63 5,503,161 T Universal medical instrument based on spectrum analysis |
| 64 5,481,481 T Automated diagnostic system having temporally coordinated wireless sensors |
| 65 5,467,428 T Artificial neural network method and architecture adaptive signal filtering |
| 66 5,463,768 T Method and system for analyzing error logs for diagnostics |
| 67 5,455,892 T Method for training a neural network for classifying an unknown signal with respect to known signals |
| 68 5,448,503 T Acoustic monitor |

69 5,442,729 T Strain-sensing goniometers, systems and recognition algorithms

- 70 5,408,588 Artificial neural network method and architecture
- 71 5,384,895 **T** Self-organizing neural network for classifying pattern signatures with `a posteriori` conditional class probability
- 72 5,306,893 T Weld acoustic monitor
- 73 5,280,265 T Strain-sensing goniometers, systems and recognition algorithms
- 74 5,226,092 **T** Method and apparatus for learning in a neural network
- 75 5,212,377 T Thin-film neuron network with optical programming
- 76 5,204,938 T Method of implementing a neural network on a digital computer
- 77 5,151,822 T Transform digital/optical processing system including wedge/ring accumulator

